

Amendment to the Claims

The present listing of claims is as follows:

1-9. (Cancelled)

10. (Currently amended) A method for secure communication between a client and a server in a data processing system, the method comprising:

generating a client message at the client;

retrieving an embedded server public key from a read-only memory structure in an article of manufacture in the client, the read-only memory structure having an embedded client private key, the embedded server public key and the embedded client private key not being related by a public/private key pair relationship, the embedded client private key being associated with a client public key generated and stored exclusively outside the client;

encrypting the client message with the embedded server public key; and

sending the client message to the server.

11. (Previously presented) The method of claim 10 further comprising:

retrieving client authentication data;

retrieving the embedded client private key from a read-only memory structure in an article of manufacture in the client;

encrypting the client authentication data with the embedded client private key;

and

storing the encrypted client authentication data in the client message.

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12. (Original) The method of claim 11 further comprising:
retrieving an embedded client serial number from a read-only memory structure in
an article of manufacture in the client; and
storing a copy of the embedded client serial number in the client message.

13-15. (Cancelled)

16. (Currently amended) A computer program product in a computer-readable
medium for use in a data processing system for secure communication between a client and a
server, the computer program product comprising:

instructions for generating a client message at the client;
instructions for retrieving an embedded server public key from a read-only
memory structure in an article of manufacture in the client, the read-only memory structure
having an embedded client private key, the embedded server public key and the embedded client
private key not being related by a public/private key pair relationship, the embedded client
private key being associated with a client public key generated and stored exclusively outside the
client;

instructions for encrypting the client message with the embedded server public
key; and instructions for sending the client message to the server.

17. (Previously presented) The computer program product of claim 16 further comprising:
 - instructions for retrieving client authentication data;
 - instructions for retrieving the embedded client private key from a read-only memory structure in an article of manufacture in the client;
 - instructions for encrypting the client authentication data with the embedded client private key; and
 - instructions for storing the encrypted client authentication data in the client message.
18. (Original) The computer program product of claim 17 further comprising:
 - instructions for retrieving an embedded client serial number from a read-only memory structure in an article of manufacture in the client; and
 - instructions for storing a copy of the embedded client serial number in the client message.
19. (Currently amended) A method for secure communication between a client and a server in a data processing system, the method comprising:
 - generating a server message at the server;
 - retrieving information that was requested by the client;
 - storing the retrieved information in the server message;
 - retrieving a client public key, wherein the client public key corresponds to an embedded client private key in a read-only memory structure in an article of manufacture in the client, and the client public key is generated and stored exclusively outside the client;
 - encrypting the server message with the client public key; and
 - sending the server message to the client.

20. (Previously presented) The method of claim 19 further comprising:
retrieving server authentication data;
retrieving a server private key;
encrypting the server authentication data with the server private key; and
storing the encrypted server authentication data in the server message.
21. (Cancelled)
22. (Cancelled)
23. (Currently amended) A computer program product in a computer-readable medium for use in a data processing system for secure communication between a client and a server, the computer program product comprising:
instructions for generating a server message at the server;
instructions for retrieving information that was requested by the client;
instructions for storing the retrieved information in the server message;
instructions for retrieving a client public key, wherein the client public key corresponds to an embedded client private key in a read-only memory structure in an article of manufacture in the client, and the client public key is generated and stored exclusively outside the client;
instructions for encrypting the server message with the client public key; and
instructions for sending the server message to the client.

24. (Original) The computer program product of claim 23 further comprising:
instructions for retrieving server authentication data;
instructions for retrieving a server private key;
instructions for encrypting the server authentication data with the server private key; and
instructions for storing the encrypted server authentication data in the server message.
25. (Currently amended) A method for secure communication between a client and a server in a data processing system, the method comprising:
receiving a client message from the client;
retrieving a server private key;
decrypting the client message with the server private key;
retrieving a client serial number from the decrypted client message; and
retrieving a client public key that is associatively stored with the retrieved client serial number, wherein the client public key corresponds to an embedded client private key in a read-only memory structure in an article of manufacture in the client and is generated and stored exclusively outside the client;
wherein the read-only memory structure has an embedded server public key, the embedded server public key and the embedded client private key not being related by a public/private key pair relationship.
26. (Original) The method of claim 25 further comprising:
retrieving encrypted client authentication data from the client message;
decrypting the client authentication data with the retrieved client public key; and
verifying the decrypted client authentication data.

27. (Cancelled)

28. (Cancelled)

29. (Currently amended) A computer program product in a computer-readable medium for use in a data processing system for secure communication between a client and a server, the computer program product comprising:

instructions for receiving a client message from the client;

instructions for retrieving a server private key;

instructions for decrypting the client message with the server private key;

instructions for retrieving a client serial number from the decrypted client message; and

instructions for retrieving a client public key that is associatively stored with the retrieved client serial number, wherein the client public key corresponds to an embedded client private key in a read-only memory structure in an article of manufacture in the client and is generated and stored exclusively outside the client;

wherein the read-only memory structure has an embedded server public key, the embedded server public key and the embedded client private key not being related by a public/private key pair relationship.

30. (Original) The computer program product of claim 29 further comprising:

instructions for retrieving encrypted client authentication data from the client message;

instructions for decrypting the client authentication data with the retrieved client public key; and

instructions for verifying the decrypted client authentication data.

31. (Currently amended) A method for secure communication between a client and a server in a data processing system, the method comprising:

receiving a server message from the server;

retrieving an embedded client private key from a read-only memory structure in an article of manufacture in the client, the embedded client private key being associated with a client public key generated and stored exclusively outside the client; and

decrypting the server message with the embedded client private key.

32. (Original) The method of claim 31 further comprising:

retrieving encrypted server authentication data from the server message;

retrieving an embedded server public key from a read-only memory structure in an article of manufacture in the client; and

decrypting the server authentication data with the embedded server public key;

and

verifying the decrypted server authentication data.

33. (Original) The method of claim 32 further comprising:

retrieving requested information from the server message; and

in response to a determination that the decrypted server authentication data was verified, processing the requested information.

34-36. (Cancelled)

37. (Currently amended) A computer program product in a computer-readable medium for use in a data processing system for secure communication between a client and a server, the computer program product comprising:

instructions for receiving a server message from the server;
instructions for retrieving an embedded client private key from a read-only memory structure in an article of manufacture in the client, the embedded client private key being associated with a client public key generated and stored exclusively outside the client; and
instructions for decrypting the server message with the embedded client private key.

38. (Original) The computer program product of claim 37 further comprising:
instructions for retrieving encrypted server authentication data from the server message;

instructions for retrieving an embedded server public key from a read-only memory structure in an article of manufacture in the client; and

instructions for decrypting the server authentication data with the embedded server public key; and

instructions for verifying the decrypted server authentication data.

39. (Original) The computer program product of claim 38 further comprising:
instructions for retrieving requested information from the server message; and
instructions for processing the requested information in response to a determination that the decrypted server authentication data was verified.

40. (Cancelled)